Aircraft Manufacturer Bell Helicopter
Aircraft Engine Manufacturer Lycoming (TVO-435-25)
No. of Engines 1 Engine Rating 270 HP
Minimum Take-Off Weight 2.35 k-lb
Maximum Take-Off Weight Peace-Time 2.95 k-lb
Maximum Take-Off Weight War-Time 2.95 k-lb
Maximum Landing Weight 2.95 k-1b
Hover Ceiling (In Ground Effect) 16,000 ft
Hover Ceiling (Out of Ground Effect) 10,500 ft
ACN

	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
		· · ·		Ultra				Very
	High	Medium	Low	Low	High	Medium	Low	Low
Weight	_A	B	_ <u>C</u> _	D	<u> </u>	<u>B</u>	_C	D

Aircraft Manufacturer Bell He	licopter		
Aircraft Engine Manufacturer	Lycoming (VO-435)		
No. of Engines 1	Engine Rating	265 HP	
Minimum Take-Off Weight 1.93 k-	1b		
Maximum Take-Off Weight Peace-Ti	me <u>2.85 k-1b</u>		
Maximum Take-Off Weight War-Time	2.85 k-1b		
Maximum Landing Weight 2.85 k-	1b		
Hover Ceiling (In Ground Effect)	5,900 ft		
Hover Ceiling (Out of Ground Eff	ect) 1,350 ft	_	

	Rigid Pavement Subgrades				Flexible Pavement Subgrace			
				Ultra				Very
	High	Medium	Low	Low	High	Medium	Low	Low
Weight	_A	B	<u></u>	D	_A	B	<u>C</u>	D

Aircraft Manufacturer	Bell Helicopter
Aircraft Engine Manufact	urer Lycoming (T53-L-11)
No. of Engines 1	Engine Rating 1100 SHP
Minimum Take-Off Weight	5.79 k-1b
Maximum Take-Off Weight	Peace-Time 8.5 k-1b
Maximum Take-Off Weight	War-Time 9.5 k-lb
Maximum Landing Weight	9.5 k-1b
Hover Ceiling (In Ground	Effect) 16,800 ft (At 9.5 k-1b)
Hover Cillanu (Out of Gre	ound Effect) 12,700 ft (At 9.5 k-1b)

	Rigid Pavement Subgrades			Flexib	le Pavemen	t Subg	rades	
				Ultra				Very
	High	Medium	Low	Low	H1gh	Medium	Low	Low
Weight	_ <u>A</u>	B	_ <u>C</u> _	D	<u> A</u>	B	<u> </u>	_ D

Note: The relative structural effect of an aircraft is not expressed for a skid equipped helicopter. This aircraft may damage AC pavement surfaces during hot weather.

Figure A-484. Bell 204 (UH-lB), Iroquois

High

Α

Weight

Medium

В

Low

C

Aircraft Manufacturer	Bell Helicopter	
Aircraft Engine Manufact	urer Lycoming (T53-	L-11)
of Engines 1	_ Engine Ra	ting 1100 SHP
Minimum Take-Off Weight	6.49 k-1b	
Maximum Take-Off Weight	Peace-Time 8.5 k-1	b
Maximum Take-Off Weight	War-Time 9.5 k-lb	
Maximum Landing Weight	9.5 k-1b	
Hover defling (In Ground	Effect) 10,600 ft (At 9.5 k-	<u>1b)</u>
Hover Ceiling (Out of Gr	ound Effect) $\frac{10,000}{\text{(At 9.}}$	<u>ft</u> 5 k-1b)
	ACN	
Rigid Pa	vement Subgrades	Flexible Pavement Subgrades

Note: The relative structural effect of an aircraft is not expressed for a skid equipped helicopter. This aircraft may damage AC pavement surfaces during hot weather.

High

<u>A</u>

Medium

___B

Very

Low

D

Low

<u>C</u>

Ultra

Low

___D__

Aircraft Manufacturer	Bell Helicopter	
Aircraft Engine Manufact	urer Lycoming (T53-L-13)	
No. of Engines 1	Engine Rating	1400 SHP
Minimum Take-Off Weight	6.6 k-lb	
Maximum Take-Off Weight	Peace-Time 8.5 k-lb	
Maximum Take-Off Weight	War-Time 9.5 k-lb	
Maximum Landing Weight	9.5 k-1b	
Hover Ceiling (In Ground	Effect) 10,400 ft (At 9.5 k-1b)	
Hover Ceiling (Out of Gro	ound Effect) 7,400 ft (At 9.5 k-1b)	
	ACN	

	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
	Ultra							Very
	High	Medium	Low	Low	High	Medium	Low	Low
Weight	<u>A</u>	<u>B</u>	<u></u>	D	<u>A</u>	B	<u></u>	D

Aircraft Manufacturer	Bell Helico	pter				
Aircraft Engine Manufact	turer Lycon	ming (T53-	L-11)			
$\Re \theta$. of Engines 1	_	Engine Ras	ting	1100 SI	НР	
Minimum Take-Off Weight	6.23 k-1b	_				
Maximum Take-Off Weight	Peace-Time	9.5 k-11)			
Maximum Take-Off Weight	War-Time _9	9.5 k-1b				
Maximum Landing Weight	9.5 k-1b					
Hover Ceiling (In Ground	Effect) 1	8,200 ft				
Hover Ceiling (Out of Gr	ound Effect)	14,000	ft			
		ACN				
Rioid Pa	vement Subora	des	Flexible	Pavement	Suborades	

High

_A__

Very

Low

D

Low

<u>C</u>

Medium

В

Ultra

Low

D

Medium

В

Low

_<u>C</u>

High

Α

Weight

Aircraft Manufacturer	Bell Helicopter	
Aircraft Engine Manufact	urer Lycoming (T53-L-13)	
No. of Engines 1	Engine Rating 1400 SHP	
Minimum Take-Off Weight	5.96 k-1b	
Maximum Take-Off Weight 1	Peace-Time 9.5 k-lb	
Maximum Take-Off Weight W	War-Time 9.5 k-lb	
Maximum Landing Weight	9.5 k-1b	
Hover Ceiling (In Ground	Effect) 13,600 ft	
Hover Ceiling (Out of Gro	ound Effect) 1,100 ft	
	A Ch'	

	Rigid Pavement Subgrades				Flexib	le Pavemen	t Subg	rades
				Ultra				Very
	High	Medium	Low	Low	High	Medium	Low	Low
Weight	_ A	B	_C_	D	Α	В	С	D

Aircraft Manufac	turer <u>Bell</u>	Helicopter				
Aircraft Engine	Manufacturer	Lycoming (T53-	-L-13)			
No. of Engines	1	Engine Ra	ating	1400 SH	IP	
Minimum Take-Off	Weight 5.91	k-1b				
Maximum Take-Off	Weight Peace-	Time <u>9.5 k-</u> 1	lb			
Maximum Take-Off	Weight War-Ti	me <u>9.5 k-1b</u>				
Maximum Landing	Weight <u>9.5 k</u>	-1b				
Hover Ceiling (1)	n Ground Effec	t) <u>10,400 ft</u>				
Hover Ceiling (O	ut of Ground E	ffect) <u>6,000</u>	ft			
-		ACN				
	Rigid Pavement		Flexible	Pavement	Subgrades	_
Hie	h Medium l	Ultra Low Low	High 1	iedium	Very Low Low	•
Weight A	B	C D	<u>A</u> .	В	<u>C</u> <u>D</u>	_

Aircraft Manufacturer	Bell Helicopter			
Aircraft Engine Manufact	urer <u>Allison (</u>	63-A- 700)		
No. of Engines 1	Engir	ne Rating	317 SHP	
Minimum Take-Off Weight	2.31 k-1b			
Maximum Take-Off Weight	Peace-Time 3.0) k-1b		
Maximum Take-Off Weight	War-Time 3.0 k-	-1b		
Maximum Landing Weight	3.0 k-1b			
Hover Ceiling (In Ground	Effect) 13,600) ft		
Hover Ceiling (Out of Gr	round Effect) 8	800 ft		
		ACN		
Rigid Pa	vement Subgrades		Pavement	
High Med Weight A I	Ultra Low Low C D		Medium 1	Very Low Low C D

High

_A__

Weight

Medium

В

Low

<u>_c</u>

Aircraft Manufacturer	Bell Helicopter		
Aircraft Engine Manufact	urer Allison (T63-	A- 720)	
No. of Engines 1	Engine R	ating	420 SHP
Minimum Take-Off Weight	2.43 k-1b		
Maximum Take-Off Weight	Peace-Time 3.2 k-	1b	
Maximum Take-Off Weight	War-Time 3.2 k-lb		
Maximum Landing Weight	3.2 k-1b		
Hover Ceiling (In Ground	Effect) 13,200 ft		
Hover Ceiling (Out of Gr	ound Effect) 9,700	ft	
	ACN		
Rigid Pa	vement Subgrades Ultra	Flexible Pa	vement Subgrades Very

Note: The relative structural effect of an aircraft is not expressed for a skid equipped helicopter. This aircraft may damage AC pavement surfaces during hot weather.

High

_A__

Medium

В

Low

<u>C</u>

Low

D

Low

__<u>D</u>__

Aircraft Manufacturer B	Bell Helicopter	
Aircraft Engine Manufactur	er <u>Allison (250-C20J)</u>	
No. of Engines 1	Engine Rating	420 SHP
Minimum Take-Off Weight <u>2</u>	.15 k-1b	
Maximum Take-Off Weight Pe	ace-Time 3.2 k-lb	
Maximum Take-Off Weight Wa	r-Time 3.2 k-lb	
Maximum Landing Weight 3	.2 k-1b	
Hover Ceiling (In Ground E	ffect) 12,800 ft	
Hover Ceiling (Out of Groun	nd Effect) 8,800 ft	_

	Rigid Pavement Subgrades			Flexib	t Subg	rades		
				Ultra				Very
	H1gh	Medium	Low	Low	High	Medium	Low	Low
Weight	A	В	С	D	Α	B	<u></u>	_D

Aircraft Manufacturer	Bell Helicopter
Aircraft Engine Manufact	urer Allison (250-C30P)
No. of Engines 1	Engine Rating 650 SHP
Minimum Take-Off Weight	2.75 k-1b
Maximum Take-Off Weight 1	Peace-Time 4.15 k-lb
Maximum Take-Off Weight V	Var-Time 4.15 k-1b
Maximum Landing Weight	4.15 k-1b
Hover Ceiling (In Ground	Effect) 16,500 ft
Hover Ceiling (Out of Gro	ound Effect)
Hover Ceiling (In Ground	Effect) 16,500 ft

	Rigid Pavement Subgrades			Flexib	t Subg	Subgrades		
				Ultra				Very
	High	Medium	Low	Low	High	Medium	Low	Low
Weight	A	В	С	D	A	В	_C_	<u>D</u>

Aircraft Manufacturer	Bell Helicopter
Aircraft Engine Manufact	urer <u>Avco Lycoming (T53-L-13)</u>
No. of Engines 1	Engine Rating 1400 SHP
Minimum Take-Off Weight	6.62 k-1b
Maximum Take-Off Weight	Peace-Time 9,41 k-1b
Maximum Take-Off Weight	War-Time 9.5 k-lb
Maximum Landing Weight	9.5 k-1b
Hover Ceiling (In Ground	Effect) 9,900 ft (At 9.5 k-lb)
Hover Ceiling (Out of Gr	ound Effect) †

	Rigid Pavement Subgrades			Flexib	t Subgr	Subgrades		
				Ultra				Very
	High	Medium	Low	Low	H ig h	Medium	Low	Low
Weight	_A	B	<u>_C</u>	D	A	<u> </u>	<u></u>	_ <u>D</u>

High

Α

Weight

Medium

В

Low

<u>C</u>

Aircraft Manufacturer	Bell Helicop	ter		
Aircraft Engine Manufac	turer Avco	Lycoming (T5	3-L-703)	······································
No. of Engines 1	· 1	Engine Rating	31485	5 SHP
Minimum Take—Off Weight	6.95 k-1b	-		
Maximum Take-Off Weight	Peace-Time	9.98 k-1b	-	
Maximum Take-Off Weight	War-Time 10	0.0 k-1b		
Maximum Landing Weight	10.0 k-1b			
Hover Ceiling (In Ground	d Effect) 12	2,200 ft 10.0 k-lb)		
Hover Ceiling (Out of G	round Effect)			
		ACN		
Rigid Pa	avement Subgrad U	es Fle	xible Paveme	nt Subgrades Very

Note: The relative structural effect of an aircraft is not expressed for a skid equipped helicopter. This aircraft may damage AC pavement surfaces during hot weather.

Low

___D__

High

_A__

Medium

В

Low

_<u>C</u>

Low

D

D

<u>C</u>

__B

_A__

Aircraft Manufa	cturer	Bel1	Helico	pter				
Aircraft Engine	Manufact	urer	Avco	Lycomin	ng (T53-L-7	03)		
No. of Engines	1	-		Engine	Rating _	1485 S	НР	
Minimum Take-Of	f Weight	7.05	k-1b	<u>—</u>		,		
Maximum Take-Of	f Weight	Peace-	-Time	9.98	k-1b			
Maximum Take-Of	f Weight	War-Ti	me _	10.0 k-1	b			
Maximum Landing	Weight	10.0	k-1b					
Hover Ceiling (In Ground	Effec	t) (12,200 f At 10.0	t k-1b)			
Hover Ceiling (Out of Gr	ound E	Effect)		<u>†</u>			
				AC				
	Rigid Pa	vement	Subgr	ades	Flexib1	e Pavement	Subgr	Very
K1	gh Med	ium	Low	Low	High	Medium	Low	Low

Note: The relative structural effect of an aircraft is not expressed for a skid equipped helicopter. This aircraft may damage AC pavement surfaces during hot weather.

__D

<u>B</u>___

Weight

_A__

Aircraft Manufacturer	Bell Helicopter	
Aircraft Engine Manufact	curer Avco Lycoming (T53-L-703)	
No. of Engines 1	Engine Rating 1485 SHP	a
Minimum Take-Off Weight	7.07 k-1b	
Maximum Take-Off Weight	Peace-Time 9.98 k-lb	
Maximum Take-Off Weight	War-Time 10.0 k-lb	
Maximum Landing Weight	10.0 k-1b	
Hover Ceiling (In Ground	Effect) 12,200 ft (At 10.0 k-1b)	
Hover Ceiling (Out of Gre	ound Effect) <u>†</u>	
	ACN	
Rigid Pa	vement Subgrades Flexible Pavement Subgr	ades
High Med Weight A B		Very Low D

Aircraft Manufacturer Bell F	Helicopter	
Aircraft Engine Manufacturer	Pratt and Whitney Can	ada (PT6T-3B)
No. of Engines 2	Engine Rating	1800 SHP
Minimum Take-Off Weight 6.88 k	c-1b	
Maximum Take-Off Weight Peace-T	Time 11.2 k-1b	
Maximum Take-Off Weight War-Tim	ne <u>11.2 k-1</u> b	
Maximum Landing Weight 11.2 k	c-1b	
Hover Ceiling (In Ground Effect	11,000 ft	
Hover Ceiling (Out of Ground Ef	ffect) <u>4,900 ft</u>	

	Rig	Rigid Pavement Subgrades				Flexible Pavement Subgrades				
				Ultra				Very		
	High	Medium	Low	Low	High	Medium	Low	Low		
Weight	Α	B	C	D	_A	B	_C_	D		

Aircraft Manufacturer Bell Helicopter
Aircraft Engine Manufacturer Pratt and Whitney Canada (PT6T-3B)
No. of Engines 2 Engine Rating 1800 SHP
Minimum Take-Off Weight 6.88 k-lb
Maximum Take-Off Weight Peace-Time 11.2 k-1b
Maximum Take-Off Weight War-Time 11.2 k-lb
Maximum Landing Weight 11.2 k-lb
Hover Ceiling (In Ground Effect) 11,000 ft
Hover Ceiling (Out of Ground Effect) 4,900 ft
ACN
Rigid Pavement Subgrades Flexible Pavement Subgrades
Ultra Very High Medium Low Low High Medium Low Low Weight A B C D A B C D

Aircraft Manu	ıfacture	r Bell	l Helico	pter				
Aircraft Engi	Ine Manu	facturer	Lyco	oming (T55	08D)			·
No. of Engine	es	1		Engine R	ating _	2930 S	HP	
Minimum Take-	-Off Wei	ght	†					
Maximum Take-	-Off Wei	ght Peace	e-Time	13.8 k	-1b			
Maximum Take-	-Off Wei	ght War-I		16.0 k-lb External	loading)			
Maximum Landi	ng Weig	nt <u>13.8</u>	k-1b					
Hover Ceiling	(In Gr	ound Effe	ect) 7	15,000 ft At 13.8 k	-1b)			
Hover Ceiling	(Out o	f Ground	Effect)	10,500 (At 13	0 ft .8 k-1b)			
				ACN				
	Rigio	i Pavemen	t Subgr	Ultra	Flexible	Pavement	Subgra	Very
	High	Medium	Low	Low	H1gh	Medium	Low	Low

_A

____B

D

C

___D__

C

В

Weight

Α__

Figure A-500. Bell 214B, Big Lifter

Aircraft Manufacturer Bell Helicopter
Aircraft Engine Manufacturer General Electric (CT7-2A)
No. of Engines 2 Engine Rating 1625 SHP
Minimum Take-Off Weight
Maximum Take-Off Weight Peace-Time 17.5 k-1b
Maximum Take-Off Weight War-Time 17.5 k-lb
Maximum Landing Weight 17.5 k-lb
Hover Ceiling (In Ground Effect) 6,400 ft
Hover Ceiling (Out of Ground Effect) 1,000 ft
ACN
Rigid Pavement Subgrades Ultra Flexible Pavement Subgrades Very
High Medium Low Low High Medium Low Low Weight A B C D A B C D